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WHAT IS CLAIMED IS:

A method of facilitating communication in an electrical power network
having a complex impedance, comprising:
modifying said complex impedance; and
determining whether said modifying affected a quality of said
communication.

- 2. The method of claim 1, wherein said modifying alters a characteristic of a null in said electrical power network.
 - 3. The method of claim 1, wherein said communication is conducted in a signal frequency band, and wherein said modifying improves said quality in said signal frequency band.
- 4. The method of claim 1, wherein said modifying is performed in response to a determination that said quality is below an acceptable threshold.
- 5. The method of claim 1, wherein and said modifying and said determining are repeated for a plurality of values for said complex impedance, and wherein said method further comprises determining which of said plurality of values yields a best level for said quality.
- 6. The method of claim 1, wherein said method is employed by a device selected from the group consisting of a transmitter, a receiver, and a transceiver.
- 7. The method of claim 1, wherein said method is employed by a transceiver that failed to receive an acknowledgement of a message that said transceiver previously transmitted over said electrical power network.

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8. The method of claim 1, wherein said quality is gauged by a bit error rate of said communication.

- 9. The method of claim 1, wherein said quality is gauged by whether said communication is acknowledged by a receiver coupled to said electrical power network.
- 10. A method of facilitating communication in an electrical power network having a complex impedance, comprising:

determining a quality of communication in said electrical power network; and

modifying said complex impedance if said quality is below an acceptable threshold.

11. A method of facilitating communication in an electrical power network having a complex impedance, comprising:

transmitting information via said electrical power network; modifying said complex impedance; and retransmitting said information via said electrical power network.

- 12. An apparatus for facilitating communication in an electrical power network having a complex impedance, comprising:
 - a circuit for modifying said complex impedance; and
 - a processor for determining whether said modifying affected a quality of said communication.
- 13. The apparatus of claim 12, wherein said modifying alters a characteristic of a null in said electrical power network.
 - 14. The apparatus of claim 12,

wherein said communication is conducted in a signal frequency band, and wherein said modifying improves said quality in said signal frequency band.

- 15. The apparatus of claim 12, wherein said modifying is performed in response to a determination that said quality is below an acceptable threshold.
- 16. The apparatus of claim 12, wherein and said modifying and said determining are repeated for a plurality of values for said complex impedance, and wherein said processor further comprises a module for determining which of said plurality of values yields a best level for said quality.
- 17. The apparatus of claim 12, wherein said apparatus is employed by device selected from the group consisting of a transmitter, a receiver, and a transceiver.
- 18. The apparatus of claim 12, wherein said apparatus is employed by a transceiver that failed to receive an acknowledgement of a message that said transceiver previously transmitted over said electrical power network.
- 19. The apparatus of claim 12, wherein said quality is gauged by a bit error rate of said communication.
- 20. The apparatus of claim 12, wherein said quality is gauged by whether said communication is acknowledged by a receiver coupled to said electrical power network.
- 21. A processor for facilitating communication in an electrical power network having a complex impedance, comprising:
 - a module for determining a quality of communication in said electrical power network; and

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a module for controlling a circuit to modify said complex impedance if said quality is below an acceptable threshold.

22. A processor for facilitating communication in an electrical power network having a complex impedance, comprising:

a module for advising a transmitter to transmit information via said electrical power network;

a module for controlling a circuit to modify said complex impedance; and a module for advising said transmitter to retransmit said information.

23. A storage medium that contains instructions for controlling a processor for facilitating communication in an electrical power network having a complex impedance, comprising:

instructions for controlling said processor to determine a quality of communication in said electrical power network; and instructions for controlling said processor to control a circuit to modify said complex impedance if said quality is below an acceptable threshold.

24. A storage medium that contains instructions for controlling a processor for facilitating communication in an electrical power network having a complex impedance, comprising:

instructions for controlling said processor to advise a transmitter to transmit information via said electrical power network;

instructions for controlling said processor to control a circuit to modify said complex impedance; and

instructions for controlling said processor to advise said transmitter to retransmit said information.